



United States  
Department of  
Agriculture

Forest Service

Natural Resource  
Manager

National Visitor  
Use Monitoring  
Program



Last updated:  
23 May 2012

# Visitor Use Report

## Deschutes NF

## USDA Forest Service Region 6

## National Visitor Use Monitoring Data collected FY 2008

# CONTENTS

## **1. Introduction**

- 1.1. Scope and purpose of the National Visitor Use Monitoring program
- 1.2. Methods
- 1.3. Definition of Terms
- 1.4. Limitations of the Results

## **2. Visitation Estimates**

- 2.1 Forest Definition of Site Days
- 2.2 Visitation Estimates

## **3. Description of the Recreation Visit**

- 3.1. Demographics
- 3.2. Visit Descriptions
- 3.3. Activities

## **4. Economic Information**

- 4.1. Spending Segments
- 4.2. Spending Profiles
- 4.3. Total Direct Spending
- 4.4. Other Visit Information
- 4.5. Household Income
- 4.6. Substitute Behavior

## **5. Satisfaction Information**

- 5.1. Crowding
- 5.2. Disabilities

## **6. Wilderness Visit Demographics**

## **7. Appendix Tables**

## 1. INTRODUCTION

### 1.1. Scope and purpose of the National Visitor Use Monitoring program

The National Visitor Use Monitoring (NVUM) program provides reliable information about recreation visitors to national forest system managed lands at the national, regional, and forest level. Information about the quantity and quality of recreation visits is required for national forest plans, Executive Order 12862 (Setting Customer Service Standards), and implementation of the National Recreation Agenda. To improve public service, the agency's Strategic and Annual Performance Plans require measuring trends in user satisfaction and use levels. NVUM information assists Congress, Forest Service leaders, and program managers in making sound decisions that best serve the public and protect valuable natural resources by providing science based, reliable information about the type, quantity, quality and location of recreation use on public lands. The information collected is also important to external customers including state agencies and private industry. NVUM methodology and analysis is explained in detail in the research paper entitled: Forest Service National Visitor Use Monitoring Process: Research Method Documentation; English, Kocis, Zarnoch, and Arnold; Southern Research Station; May 2002 (<http://www.fs.fed.us/recreation/programs/nvum>).

In 1998 a team of research scientists and forest staff developed a recreation sampling system (NVUM) that provides statistical recreation use information at the forest, regional, and national level. Several Forest Service staff areas including Recreation, Wilderness, Ecosystem Management, Research and Strategic Planning and Resource Assessment were involved in developing the program. From January 2000 through September 2003 every national forest implemented this methodology and collected visitor use information. This application served to test the method over the full range of forest conditions, and to provide a rough national estimate of visitation. Implementation of the improved method began in October 2004. Once every five years, each National Forest and Grassland has a year of field data collection.

This NVUM data is useful for forest planning and decision making. The description of visitor characteristics (age, race, zip code, activity participation) can help forest staff identify their recreation niche. Satisfaction information can help management decide where best to place limited resources that would result in improved visitor satisfaction. Economic expenditure information can help forests show local communities the employment and income effects of tourism from forest visitors. In addition, the visitation estimates can be helpful in considering visitor capacity issues.

### 1.2. Methods

To define the sampling frame, staff on each forest classify all recreation sites and areas into five basic categories called "site types": Day Use Developed Sites (DUDS), Overnight Use Developed Sites (OUDS), Designated Wilderness Areas (Wilderness), General Forest Areas (GFA), and View Corridors (VC). Only the first four categories are counted as national forest recreation visits and are included in the visit estimates. The last category is used to track the volume of people who view national forests from nearby roads; since they do not get onto agency lands, they cannot be counted as visits. For the entire sampling year, each day on each site was given a rating of very high, high, medium, low, or no use according to the expected level of recreational visitors who

would be observed leaving that location for the last time (last exiting recreation use) on that day. The combination of a calendar day and a site or area is called a site day. Site days are the basic sampling unit for the NVUM protocol. Results of this forest categorization are shown in Table 1.

In essence, visitation is estimated through a combination of traffic counts and surveys of exiting visitors. Both are obtained on a random sample of locations and days distributed over an entire forest for a year. All of the surveyed recreation visitors are asked about their visit duration, activities, demographics, travel distance, and annual usage. About one-third were also asked a series of questions about satisfaction. Another one-third were asked to provide information about their income, spending while on their trip, and the next best substitute for the visit.

### 1.3. Definition of Terms

NVUM has standardized measures of visitor use to ensure that all national forest visitor measures are comparable. These definitions are basically the same as established by the Forest Service in the 1970's. Visitors must pursue a recreation activity physically located "on" Forest Service managed land in order to be counted. They cannot be passing through; viewing from non-Forest Service managed roads, or just using restroom facilities. The visitation metrics are ***national forest visits*** and ***site visits***. NVUM provides estimates of both and confidence interval statistics measuring the precision of the estimates. The NVUM methodology categorizes recreation facilities and areas into specific site types and use levels in order to develop the sampling frame. Understanding the definitions of the variables used in the sample design and statistical analysis is important in order to interpret the results.

***National forest visit*** is the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A national forest visit can be composed of multiple site visits. The visit ends when the person leaves the national forest to spend the night somewhere else.

***Site visit*** is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time. The site visit ends when the person leaves the site or area for the last time on that day.

A ***confidence interval*** is a range of values that is likely to include an unknown population value, where the range is calculated from a given set of sample data. Confidence intervals are always accompanied by a ***confidence level***, which tells the degree of certainty that the value lies in the interval. Used together these two terms define the reliability of the estimate, by defining the range of values that are needed to reach the given confidence level. For example, the 2008 national visitation estimate is 175.6 million visits, with a 90% confidence interval of 3.2%. In other words, given the NVUM data, our best estimate is 175.6 million visits, and given the underlying data, we are 90% certain that the true number is between 170.0 million and 181.2 million.

***Recreation trip*** is the duration of time beginning when the visitor left their home and ending when they return to their home.

***Site day*** - a day that a recreation site or area is open to the public for recreation purposes.

***Proxy*** - information collected at a recreation site or area that is directly related to the amount of

recreation visitation received. The proxy information must pertain to all users of the site and it must be one of the proxy types allowed in the NVUM pre-work directions (fee receipts, fee envelopes, mandatory permits, permanent traffic counters, group reservations, ticket sales, and daily use records).

**Nonproxy** - a recreation site or area that does not have proxy information. At these sites a 24-hour traffic count is taken to measure total use for one site day at the sample site.

**Use level** - for each day of the year for each recreation site or area, the site day was categorized as very high, high, medium or low last exiting recreation traffic, or no exiting use. No Use could mean either that the location was administratively closed, or it was open but was expected to have zero last exiting visitors. For example a picnic area may be listed as having no use during winter months (120 days), high last exiting recreation volume on all other weekends (70 days) and medium last exiting recreation use on the remaining midweek days (175 days). This accounts for all 365 days of the year. This process was repeated for every site and area on the forest.

## 1.4. Limitations of the Results

The information presented here is valid and applicable at the forest, regional, and national level. It is not designed to be accurate at the district or site level. The quality of the visitation estimate is dependent on the sample design development, sampling unit selection, sample size and variability, and survey implementation. First, preliminary work conducted by forests to identify and consistently classify sites and access points according to the type and amount of expected exiting visitation is the key determinant of the validity and magnitude of the visitation estimate. Second, the success of the forest staff in accomplishing its assigned set of sample days, correctly filling out the interview forms, and following the field protocols influence the reliability of the results, variability of the visitation estimate, and validity of the visitation descriptions. Third, the variability of traffic counts within a sampling stratum affects the reliability of the visitation estimates. Fourth, the range of visitors sampled must be representative of the population of all visitors. Finally, the number of visitors sampled must be large enough to adequately control variability. The results and confidence intervals will reflect all these factors.

Confidence intervals indicate the reliability of the visitation estimate, given the underlying data. Large confidence intervals indicate high variability in the national forest visit (NFV), site visit (SV) and Wilderness visit estimates. Variance is caused primarily by a small sample size in number of days or having a few sampled days where the observed exiting visitation volume was very different from the normal range. For example, on a particular National Forest in the General Forest Area low stratum, there were 14 sample days. Of these 14 sample days, 13 days had visitation estimates between zero and twenty. The remaining day had a visitation estimate of 440. So the stratum mean was about 37 per day, standard error was about 116, and the 90% confidence interval width is 400% of the mean. Causes for such outlier observations are not known, but could include a misclassification of the day (a high use day incorrectly categorized as a low use day), unusual weather, malfunctioning traffic counter, or reporting errors. Eliminating the unusual observation from data analysis would reduce the variability. However, unless the NVUM team had reason to suspect the observation was incorrect they did not eliminate these unusual cases.

The descriptive information about national forest visitors is based upon only those visitors that were interviewed. Every effort was made to incorporate distinct seasonal use patterns and activities that

vary greatly by season into the sampling frame. The sampling plan took into account both the spatial and seasonal spread of visitation patterns across the forest. Even so, because of the small sample size of site-days, or because some user groups decline to participate in the survey, it is possible to under-represent certain user groups, particularly for activities that are quite limited in where or when they occur.

Note that the results of the NVUM activity analysis DO NOT identify the types of activities visitors would like to have offered on the national forests. It also does not tell us about displaced forest visitors, those who no longer visit the forest because the activities they desire are not offered.

Some forest visitors were counted and included in the total forest use estimate but were not surveyed. This included visitors to recreation special events and organization camps. Their characteristics are not included in the visit descriptions.

Caution should be used in interpreting any comparisons of these results with those obtained during the 2000 - 2003 period. Differences cannot be interpreted as a trend. Several method changes account for the differences, for both visitation estimates and visit characteristics. One key factor is that the first application of the NVUM process was largely a national beta-test of the method, and significant improvements occurred following it. The NVUM process entailed a completely new method and approach to measuring visitation on National Forest lands. Simply going through the NVUM process for the first time enabled forest staff to do a much better job thereafter in identifying sites, accurately classifying days into use level strata, and ensuring consistency across all locations on the forest. These improvements enhanced the validity of all aspects of the NVUM results. Sampling plans and quality control procedures were also improved.

## 2. VISITATION ESTIMATES

### 2.1. Forest Definition of Site Days

The population of site days for sampling was constructed from information provided by forest staff. For each site, each day of the year was given a rating of very high, high, medium, low, or none according to the expected volume of recreation visitors who would be leaving the site or area for the last time (last exiting recreation use). The stratum, a combination of site type and use level, was then used to construct the sampling frame. The results of the recreation site/area stratification and days sampled are displayed in Table 1.

Table 1. Site Days and Percentage of Days Sampled by Stratum

Stratum*		Days Sampled	Site Days# in Use Level/Proxy Population	Sampling Rate (%)&
Site Type†	Use Level‡ or Proxy Code§			
DUDS	HIGH	15	357	4.2
DUDS	MEDIUM	17	1,283	1.3
DUDS	LOW	12	4,534	0.3
DUDS	FR1	7	95	7.4
DUDS	PTC1	9	310	2.9
DUDS	SV1	10	196	5.1
OU DS	HIGH	7	43	16.3
OU DS	MEDIUM	8	35	22.9
OU DS	LOW	13	1,355	1.0
OU DS	DUR4	36	7,908	0.5
OU DS	DUR5	7	407	1.7
OU DS	FR5	4	318	1.3
OU DS	RE4	10	1,211	0.8
OU DS	SUP4	10	1,700	0.6
GFA	HIGH	20	1,692	1.2
GFA	MEDIUM	32	4,047	0.8
GFA	LOW	22	21,898	0.1
WILDERNESS	HIGH	8	108	7.4
WILDERNESS	MEDIUM	14	599	2.3
WILDERNESS	LOW	15	3,722	0.4
<b>Total</b>		<b>276</b>	<b>51,818</b>	<b>0.5</b>

\* Stratum is the combination of the site type and use level or proxy code. Sample days were independently drawn within each stratum.

† DUDS = Day Use Developed Site, OU DS = Overnight Use Developed Site, GFA = General Forest Area ("Undeveloped Areas"), WILDERNESS = Designated Wilderness

‡ Use level was defined independently by each forest by defining the expected number of recreation visitors that would be last-exiting a site or area on a given day. The forest developed the range for very high, high, medium, and low and then assigned each day of the year to one of the use levels.

§ Proxy Code - If the site or area already had counts of use (such as fee envelopes or ski lift tickets) the site was called a proxy site and sampled independent of nonproxy sites.

# Site Days are days that a recreation site or area is open to the public for recreation purposes.

& 0.0 - This value is less than five one-hundredths.

## 2.2. Visitation Estimates

Visitation estimates are available at the national, regional, and forest level. This document provides only National Forest level data. Other documents may be obtained through the National Visitor Use Monitoring web page: [www.fs.fed.us/recreation/programs/nvum](http://www.fs.fed.us/recreation/programs/nvum).



When reviewing the results, users should discuss with forest staff if this forest experienced any unusual circumstances such as forest fires, floods, or atypical weather that may have created an unusual recreation use pattern for the year sampled. Table 2 displays the number of national forest visits and site visits by site type for this National Forest.

**Table 2. Annual Visitation Estimate**

Visit Type	Visits (1,000s)	90% Confidence Level (%)#
Total Estimated Site Visits*	2,274	±11.8
→ Day Use Developed Site Visits	1,111	±11.6
→ Overnight Use Developed Site Visits	218	±12.9
→ General Forest Area Visits	903	±25.7
→ Designated Wilderness Visits†	42	±60.0
Total Estimated National Forest Visits§	1,895	±12.3
→ Special Events and Organized Camp Use‡	12	±0.0

\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

† Designated Wilderness visits are included in the Site Visits estimate.

‡ Special events and organizational camp use are not included in the Site Visit estimate, only in the National Forest Visits estimate. Forests reported the total number of participants and observers so this number is not estimated; it is treated as 100% accurate.

§ A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

# This value defines the upper and lower bounds of the visitation estimate at the 90% confidence level, for example if the visitation estimate is 100 +/-5%, one would say "at the 90% confidence level visitation is between 95 and 105 visits."

The quality of the use estimate is based in part on how many individuals were contacted during the sample day and how many complete interviews were obtained from which to estimate NVUM numbers and visitor descriptions. Table 3 and Table 4 display the number of visitor contacts, number of completed interviews by site type and survey form type. This information may be useful to managers when assessing how representative of all visitors the information in this report may be.

**Table 3. Number of Individuals Contacted by Site Type**

Site Type	Total Individuals Contacted	Individuals Who Agreed to be Interviewed	Recreating Individuals Who Are Leaving for the Last Time That Day
Day Use Developed Sites	980	674	510
Overnight Use Developed Sites	606	484	181
Undeveloped Areas (GFAs)	593	478	252
Designated Wilderness	97	78	69
<b>Total</b>	<b>2,276</b>	<b>1,714</b>	<b>1,012</b>

**Table 4. Number of Complete Interviews\* by Site Type and Form Type**

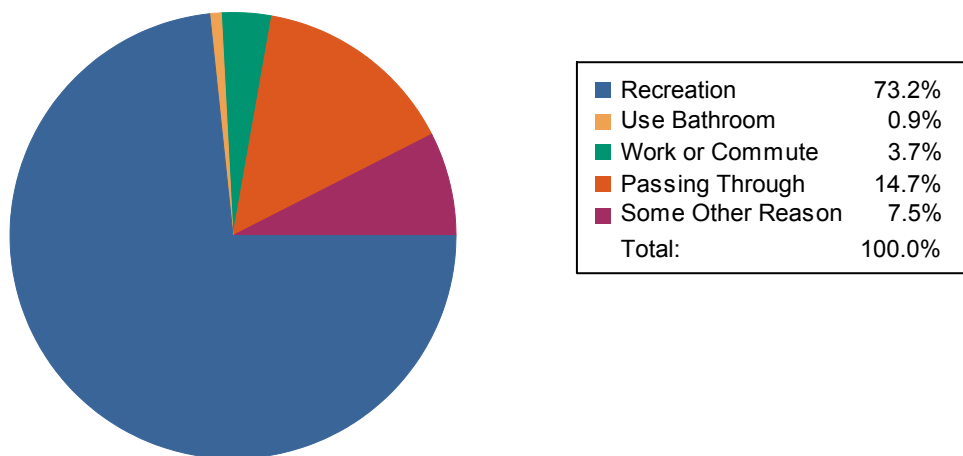
Form Type†	Developed Day Use Site	Developed Overnight	Undeveloped Areas (GFAs)	Wilderness	Total
Basic	182	58	77	30	347
Economic	171	73	94	15	353
Satisfaction	157	50	81	24	312
<b>Total</b>	<b>510</b>	<b>181</b>	<b>252</b>	<b>69</b>	<b>1,012</b>

\* Complete interviews are those in which the individual contacted agreed to be interviewed, was recreating on the national forest and was exiting the site or area for the last time that day.

† Form type is the type of interview form administered to the visitor. The Basic form did not ask either economic or satisfaction questions. The Satisfaction form did not ask economic questions and the Economic form did not ask satisfaction questions.

Visitors were interviewed regardless of whether they were recreating at the site or not, however the interview was discontinued after determining that the reason for visiting the site was not recreation. Figure 1 displays the various reasons visitors gave as their purpose for stopping at the sample site.

Figure 1. Purpose of Visit by Visitors Who Agreed to be Interviewed



### 3. DESCRIPTION OF THE RECREATION VISIT

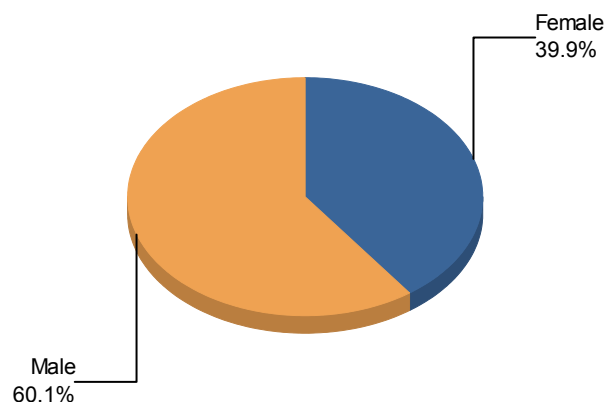
#### 3.1. Demographics

Descriptions of forest recreational visits were developed based upon the characteristics of interviewed visitors (respondents) and expanded to the national forest visitor population. Basic demographic information helps forest managers identify the profile of the visitors they serve. Management concerns such as providing recreation opportunities for underserved populations may be monitored with this information. Table 5, Table 6 and Table 7 provide basic demographic information about visitors interviewed regarding Gender, Race/Ethnicity, and Age, respectively. Table 8 shows the 15 most common reported origins for recreation visitors. A complete list of reported zip codes for respondents is found in Appendix A. Table 9 provides information about self reported travel distance from home to the interview site.

Demographic results show that almost 32 percent of visits are made by females. Hispanic/Latinos (3.0%) and American Indian/Alaska Native (2.4%) are the most common racial or ethnic minorities. There are relatively few older people in the visiting population. Only about 3 percent of visits are made by people aged 70 and up. Over 20 percent of the visiting population is in their forties and over 15% are in their thirties. Just under 17 percent of the visiting population is children under the age of 16. This forest serves a mostly local client base. The majority of the visits come from people who live within 50 miles of the forest, although 20 percent come from more than 200 miles away.

Table 5. Percent of National Forest Visits\* by Gender

Gender	Survey Respondents†	National Forest Visits (%)‡
Female	1,084	39.9
Male	1,308	60.1
Total	<b>2,392</b>	<b>100.0</b>



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

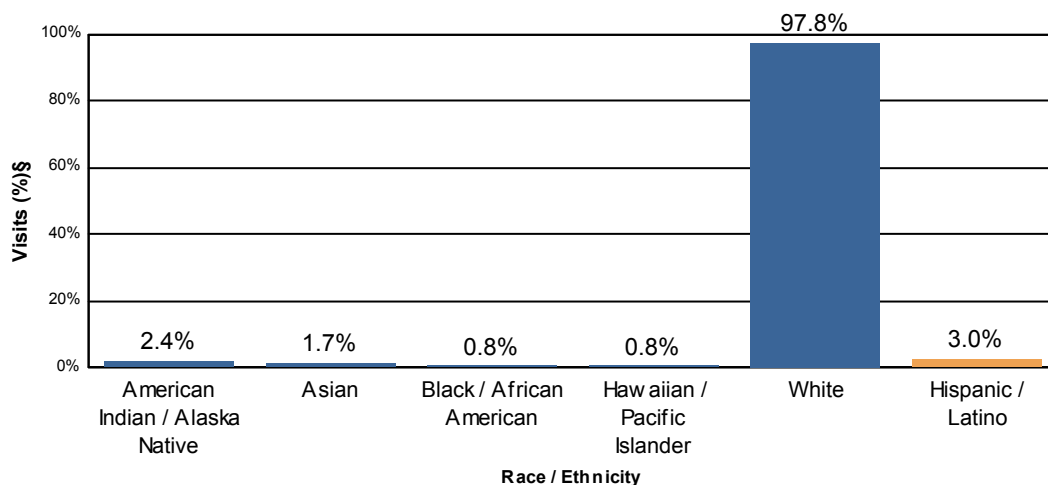
† Non-respondents to gender questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

Table 6. Percent of National Forest Visits\* by Race/Ethnicity

Race †	Survey Respondents‡	National Forest Visits (%)§
American Indian / Alaska Native	20	2.4
Asian	14	1.7
Black / African American	4	0.8
Hawaiian / Pacific Islander	5	0.8
White	898	97.8
Total	941	103.5#

Ethnicity†	Survey Respondents‡	National Forest Visits (%)§
Hispanic / Latino	29	3.0



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

# Respondents could choose more than one racial group, so the total may be more than 100%.

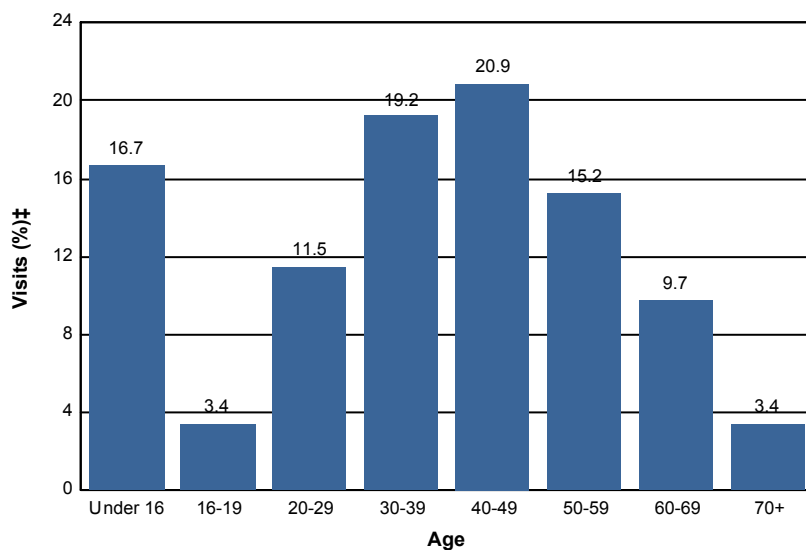
† Race and Ethnicity were asked as two separate questions.

‡ Non-respondents to race/ethnicity questions were excluded from analysis.

§ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

Table 7. Percent of National Forest Visits\* by Age

Age Class	National Forest Visits (%)‡
Under 16	16.7
16-19	3.4
20-29	11.5
30-39	19.2
40-49	20.9
50-59	15.2
60-69	9.7
70+	3.4
<b>Total</b>	<b>100.0</b>



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Non-respondents to age questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

**Table 8. Top 15 Most Commonly Reported ZIP Codes, States and Counties of National Forest Survey Respondents**

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
97701	Oregon	Deschutes County	34.0	178
97702	Oregon	Deschutes County	24.8	130
97756	Oregon	Deschutes County	7.3	38
97707	Oregon	Deschutes County	5.3	28
97739	Oregon	Deschutes County	5.2	27
Unknown Origin*			5.0	26
97759	Oregon	Deschutes County	4.6	24
Foreign Country			3.8	20
97401	Oregon	Lane County	1.7	9
97405	Oregon	Lane County	1.7	9
97045	Oregon	Clackamas County	1.5	8
97741	Oregon	Jefferson County	1.3	7
97219	Oregon	Multnomah County	1.3	7
97330	Oregon	Benton County	1.3	7
97224	Oregon	Washington County	1.1	6

\* Includes respondents reporting no ZIP code or an invalid ZIP code.

**Table 9. Percent of National Forest Visits\* by Distance Traveled**

Miles from Survey Respondent's Home to Interview Location†	National Forest Visits (%)
0 - 25 miles	34.8
26 - 50 miles	22.4
51 - 75 miles	3.1
76 - 100 miles	5.8
101 - 200 miles	14.0
201 - 500 miles	11.8
Over 500 miles	8.2
Total	100.1

Note: Blank cells indicate that insufficient data were collected to make inferences.

\* National Forest Visits are defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Travel distance is self-reported.



### 3.2. Visit Descriptions

Characteristics of the recreation visit such as length of visit, types of sites visited, activity participation and visitor satisfaction with forest facilities and services help managers understand recreation use patterns and use of facilities. This allows them to plan workforce and facility needs. The average national forest visit length of stay and average site visit length of stay by site type on this forest is displayed in Table 10. Since the average values displayed in Table 10 may be influenced by a few people staying a very long time, the median value is also shown.

Most visits to the Deschutes are day visits. The average visit lasts less than 20 hours; over half of the visits to this forest last 4 hours or less. Less than fourteen percent of the visits involve recreating at more than one location on the forest. The local nature of the visiting population results in a number of frequent visitors. Over 15 percent of all visits are made by people who visit more than 50 times per year. About 44 percent of the visits are made by people who visit at most 5 times per year.

Table 10. Visit Duration

Visit Type	Average Duration (hours)‡	Median Duration (hours)‡
Site Visit	11.1	2.9
Day Use Developed	2.7	2.1
Overnight Use Developed	43.3	42.3
Undeveloped Areas	14.1	3.5
Designated Wilderness	8.1	3.8
National Forest Visit	19.5	4.0

\* A Site Visit is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time. Sites and areas were divided into four site types as listed here.

† A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

‡ If this variable is blank not enough surveys were collected to make inferences.

Many of the respondents on this National Forest went only to the site at which they were interviewed (Table 11). Some visitors went to more than one recreation site or area during their national forest visit and the average site visits per national forest visit is shown below. Also displayed are the average people per vehicle and average axles per vehicle. This information in conjunction with traffic counts was used to expand observations from individual interviews to the full forest population of recreation visitors. This information may be useful to forest engineers and others who use vehicle counters to conduct traffic studies.

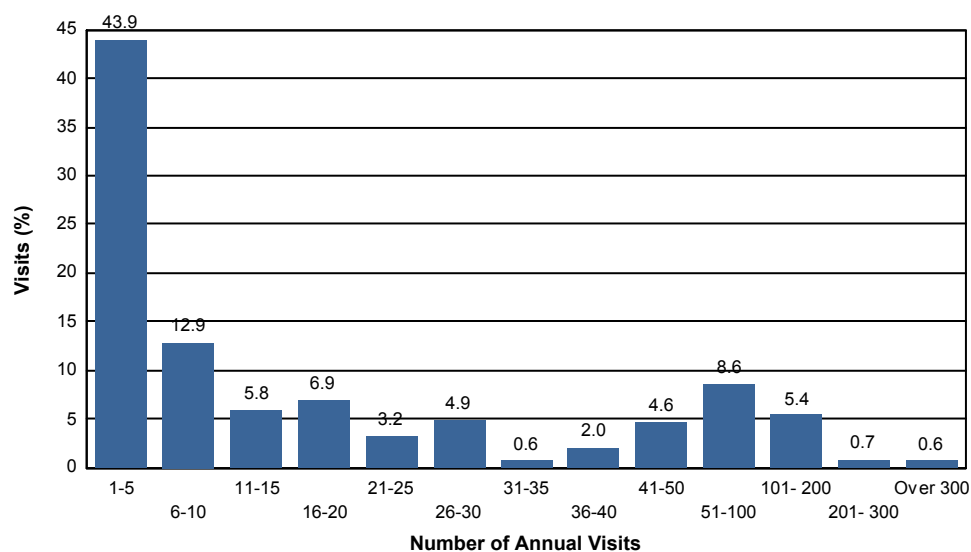
During the interview, visitors were asked how often they visit this national forest for all recreational activities, and how often for their primary activity. Table 12 summarizes the percent of visits that are made by those in each frequency category for this National Forest.

Table 11. Group Characteristics

Characteristic	Average
Percent of visits that were to just one national forest site during the National Forest Visit*	86.0
Number of national forest sites visited on National Forest Visit*	1.3
Group Size	2.6
Axles per Vehicle	2.1

Table 12. Percent of National Forest Visits\* by Annual Visit Frequency

Number of Annual Visits	Visits (%)†	Cumulative Visits (%)
1 - 5	43.9	43.9
6 - 10	12.9	56.8
11 - 15	5.8	62.6
16 - 20	6.9	69.5
21 - 25	3.2	72.7
26 - 30	4.9	77.5
31 - 35	0.6	78.2
36 - 40	2.0	80.1
41 - 50	4.6	84.7
51 - 100	8.6	93.3
101 - 200	5.4	98.7
201 - 300	0.7	99.4
Over 300	0.6	100.0



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† The first row indicates the percent of National Forest Visits made by persons who visit 1 to 5 times per year. The last row indicates the percent of National Forest Visits made by persons who visit more than 300 times per year.

### 3.3. Activities

After identifying their main recreational activity, visitors were asked how many hours they spent participating in that main activity during this national forest visit. Some caution is needed when using this information. Because most national forest visitors participate in several recreation activities during each visit, it is more than likely that other visitors also participated in this activity, but did not identify it as their main activity. For example, on one national forest 63 % of visitors identified viewing wildlife as a recreational activity that they participated in during this visit, however only 3% identified that activity as their main recreational activity. The information on average hours viewing wildlife is only for the 3% who reported it as a main activity.

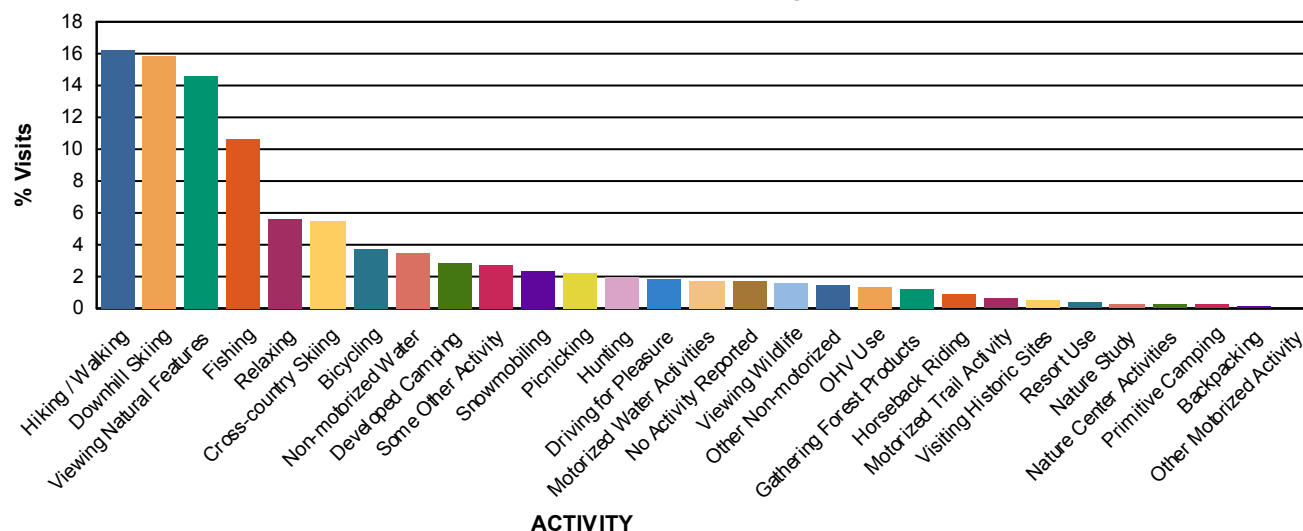
The two most popular activities on the Deschutes are viewing scenery and hiking. Over 40% of visits participate in each of these. Hiking is also the most commonly mentioned primary activity, followed downhill skiing and viewing natural features.

### Use of Constructed Facilities and Designated Areas

About one-third of recreation visitors interviewed were asked about whether they made use of a targeted set of facilities and special designated areas during their visit. These results are displayed in Table 14.

Table 13. Activity Participation

Activity	% Participation*	% Main Activity‡	Avg Hours Doing Main Activity
Viewing Natural Features	40.7	14.6	1.9
Hiking / Walking	40.7	16.2	3.4
Relaxing	33.8	5.6	21.0
Viewing Wildlife	25.1	1.6	1.5
Downhill Skiing	17.3	15.9	3.9
Fishing	16.1	10.6	8.2
Driving for Pleasure	14.5	1.8	2.4
Picnicking	10.3	2.2	13.1
Developed Camping	8.4	2.9	49.2
Bicycling	7.5	3.7	2.7
Cross-country Skiing	7.4	5.5	2.3
Non-motorized Water	6.9	3.4	3.5
Other Non-motorized	5.6	1.5	7.5
Nature Center Activities	4.4	0.2	2.1
Motorized Water Activities	4.2	1.8	14.4
Some Other Activity	4.0	2.7	3.5
Resort Use	3.6	0.4	34.9
Visiting Historic Sites	3.4	0.5	3.0
Snowmobiling	3.4	2.3	5.3
Gathering Forest Products	3.4	1.3	6.2
Nature Study	3.3	0.2	5.9
OHV Use	2.1	1.3	4.0
Motorized Trail Activity	2.1	0.6	6.3
Hunting	2.0	1.9	11.3
Primitive Camping	1.3	0.2	20.6
Horseback Riding	0.7	0.8	6.6
Backpacking	0.5	0.1	15.3
Other Motorized Activity	0.3	0.0	0.0
No Activity Reported	0.2	1.7	

**% Main Activity**

\* Survey respondents could select multiple activities so this column may total more than 100%.

† Survey respondents were asked to select just one of their activities as their main reason for the forest visit. Some respondents selected more than one, so this column may total more than 100%.

**Table 14. Percent of National Forest Visits\* Indicating Use of Special Facilities or Areas**

Special Facility or Area	% of National Forest Visits†
Developed Swimming Site	9.3
Scenic Byway	31.8
Visitor Center or Museum	9.1
Designated ORV Area	8.2
Forest Roads	4.6
Interpretive Displays	6.8
Information Sites	5.5
Developed Fishing Site	8.7
Motorized Single Track Trails	5.1
Motorized Dual Track Trails	7.2
None of these Facilities	50.3

\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Survey respondents could select as many or as few special facilities or areas as appropriate.

## 4. ECONOMIC INFORMATION

Forest managers are usually very interested in the impact of National Forest recreation visits on the local economy. As commodity production of timber and other resources has declined, local communities look increasingly to tourism to support their communities. When considering recreation-related visitor spending managers are often interested both in identifying the average spending of individual visitors (or types of visitors) and the total spending associated with all recreation use. Spending averages for visitors or visitor parties can be estimated using data collected from a statistically valid visitor sampling program such as NVUM. To estimate the total spending associated with recreation use, three pieces of information are needed: an overall visitation estimate, the proportion of visits in the visitor types, and the average spending profiles for each of the visitor types. Multiplying the three gives a total amount of spending by a particular type of visitor. Summing over all visitor types gives total spending.

About one-third of the NVUM surveys included questions about trip-related spending within 50 miles of the site visited. Spending data collected from 2000 to 2003 were analyzed at Michigan State University by Dr. Daniel Stynes and Dr. Eric White. A description of that analysis and the results are in the report "Spending Profiles of National Forest Visitors: NVUM four-year report", available at <http://www.fs.fed.us/recreation/programs/nvum/NVUM4YrSpending.pdf>. Analysis of spending data for the 2005 - 2009 data collection periods was completed in summer of 2010.

### 4.1. Spending Segments

The spending that occurs on a recreation trip is greatly influenced by the type of recreation trip taken. For example, visitors on overnight trips away from home typically have to pay for some form of lodging (e.g., hotel/motel rooms, fees in a developed campground, etc.) while those on day trips do not. In addition, visitors on overnight trips will generally have to purchase more food during their trip (in restaurants or grocery stores) than visitors on day trips. Visitors who have not traveled far from home to the recreation location usually spend less than visitors traveling longer distances, especially on items such as fuel and food. Analysis of spending patterns has shown that a good way to construct segments of the visitor market with consistent spending patterns is the following seven groupings:

1. local visitors on day trips,
2. local visitors on overnight trips staying in lodging on the national forest,
3. local visitors on overnight trips staying in lodging off the national forest, and
4. non-local visitors on day trips,
5. non-local visitors on overnight trips staying in lodging on the national forest,
6. non-local visitors on overnight trips staying in lodging off the forest,
7. non-primary visitors.

Local visitors are those who travel less than 50 road miles from home to the recreation site visited and non-local visitors are those who travel greater than 50 road miles to the recreation site visited. Non-primary visitors are those for whom the primary purpose of their trip is something other than recreating on that national forest. Table 15 shows the distribution of visits by spending segment.

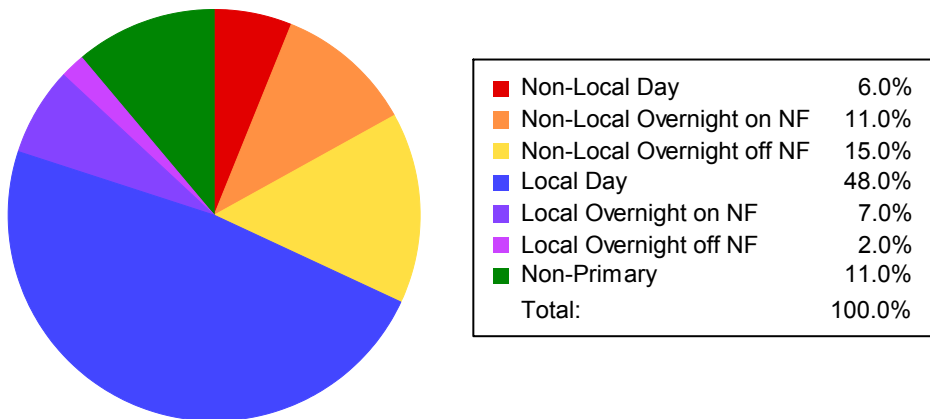
Over half of the visits to this forest are people on day trips away from home, mostly local area

residents. Over 35 percent of the visiting population spends the night while on their trip. Of those visits that spend the night, 33 percent do so within 50 miles of the forest. Over 26 percent of the visits that spend the night in the area do so in Forest Service campgrounds and 25 percent spend the night at a rented home, condo, lodge, or hotel not on the forest. About half of the visiting parties spend \$70 or less per party per visit. Almost 30 percent of the visiting population comes from households with annual incomes of \$50,000 to \$74,999 range. Another 21 percent come from households in the \$75,000 to \$99,999 range.

**Table 15. Distribution of National Forest Visits\* by Market Segment†**

	Non-Local Segments			Local Segments			Non-Primary‡	Total
	Day	Overnight on NF	Overnight off NF	Day	Overnight on NF	Overnight off NF		
Number of National Forest Visits	113,693	208,437	284,233	909,545	132,642	37,898	208,437	1,894,886
Percent of National Forest Visits	6	11	15	48	7	2	11	100

### Percent of National Forest Visits



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† The market segments shown here relate to the type of recreation trip taken. A recreation trip is defined as the duration of time beginning when the visitor left their home and ending when they got back to their home. "Non-local" trips are those where the individual(s) traveled greater than approximately 50 miles from home to the site visited. "Day" trips do not involve an overnight stay outside the home, "overnight on-forest" trips are those with an overnight stay outside the home on National Forest System (NFS) land, and "overnight off-forest" trips are those with an overnight stay outside the home off National Forest System land.

‡ "Non-primary" trips are those where the primary recreation destination of the trip was somewhere other than the national forest under consideration.

Individuals are urged to consult an economist when interpreting the NVUM economic tables.



## 4.2. Spending Profiles

Spending profiles for each segment for this forest can be found in the Stynes and White report noted above. Appendix Table A-1 in that report identifies whether the forest has a high-spending profile (Table 7 of Stynes and White), an average profile (Table 5), or a low-spending profile (Table 8). It is essential to note that these spending profiles are in dollars spent per **party**. Obtaining per-visit spending is accomplished by dividing the spending for each segment by the average people per party for the forest and segment found in Appendix Table A-3 of that report.

## 4.3. Total Direct Spending

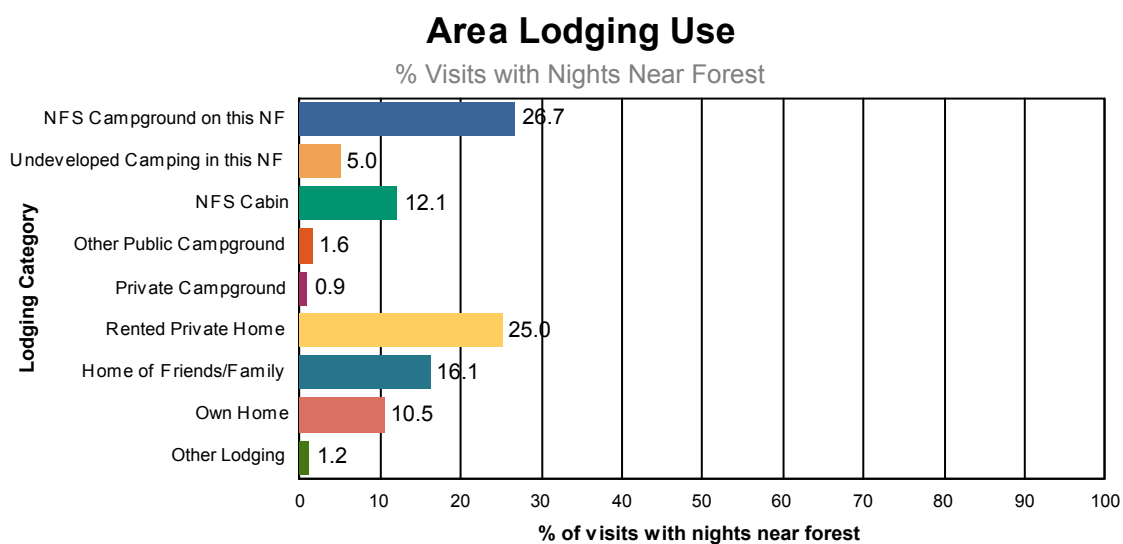
Total direct spending made within 50 miles of the forest and associated with national forest recreation is calculated by combining estimates of per-visit spending averages from the spending profiles with estimates of the number of national forest visits in the segment. The number of visits in the segment equals the percentage in Table 15 times the number of National Forest visits reported in Table 2.

## 4.4. Other Visit Information

There are several other important aspects of the trips on which the recreation visits to the forest are made. These are summarized in Table 16. The first aspect relates to total amount spent by the recreating party on the trip. This includes spending not just within 50 miles of the forest, but anywhere. The table shows both the average and the median. Another set describes the overall length of the trips on which the visits are made. The table shows the percent of the visits that were made on trips where the person stayed away from home overnight (even though the forest visit may be just a day visit), and the average total nights away from home and nights spent within 50 miles of the forest. For those spending one or more nights in or near the forest, the table shows the percentage that selected each of a series of lodging options. Together, these results help show the context of overall trip length and lodging patterns for visitors to the forest.

Table 16. Trip Spending and Lodging Usage

Trip Spending	Value
Average Total Trip Spending per Party	\$376
Median Total Trip Spending per Party	\$70
% NF Visits made on trip with overnight stay away from home	41.3%
% NF Visits with overnight stay within 50 miles of NF	38.4%
Mean nights/visit within 50 miles of NF	3.9
Area Lodging Use	% Visits with Nights Near Forest
NFS Campground on this NF	26.7%
Undeveloped Camping in this NF	5.0%
NFS Cabin	12.1%
Other Public Campground	1.6%
Private Campground	0.9%
Rented Private Home	25.0%
Home of Friends/Family	16.1%
Own Home	10.5%
Other Lodging	1.2%



## 4.5. Household Income

Visitors were asked to report a general category for their total household income. Only very general categories were used, to minimize the intrusive nature of the question. Results help indicate the overall socio-economic status of visitors to the forest, and are found in Table 17.

**Table 17. Percent of National Forest Visits\* by Annual Household Income**

Annual Household Income Category	National Forest Visits (%)
Under \$25,000	6.2
\$25,000 to \$49,999	16.4
\$50,000 to \$74,999	29.2
\$75,000 to \$99,999	20.8
\$100,000 to \$149,999	15.6
\$150,000 and up	11.7
Total	99.9

\* National Forest Visits are defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

## 4.6. Substitute Behavior

Visitors were asked to select one of several substitute choices, if for some reason they were unable to visit this national forest (Figure 3). Choices included going somewhere else for the same activity they did on the current trip, coming back to this forest for the same activity at some later time, going someplace else for a different activity, staying at home and not making a recreation trip, going to work instead of recreating, and a residual 'other' category. On most forests, the majority of visitors indicate that their substitute behavior choice is activity driven (going elsewhere for same activity) and a smaller percentage indicate they would come back later to this national forest for the same activity. For those visitors who said they would have gone somewhere else for recreation they were asked how far from their home this alternate destination was. These results are shown in Figure 4.

Figure 3. Substitute Behavior Choices

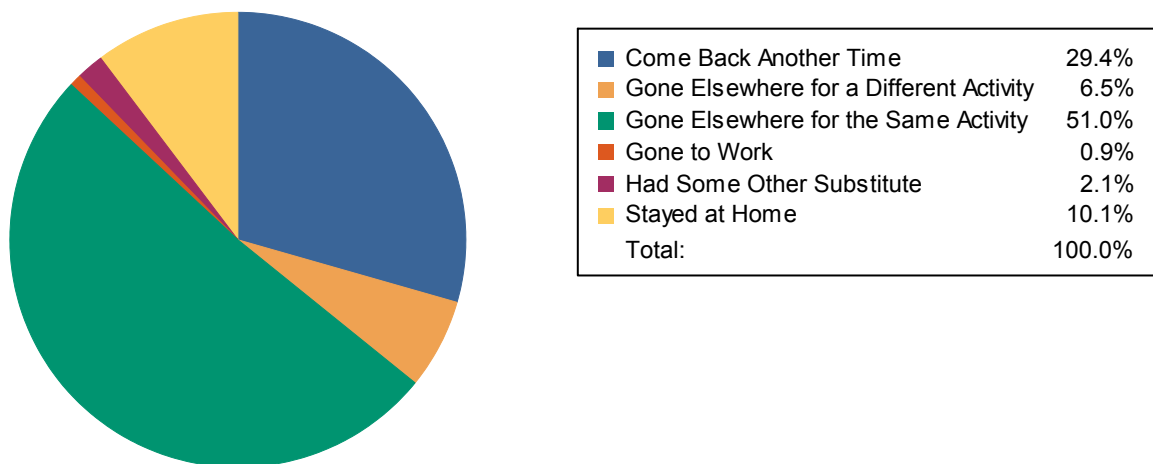
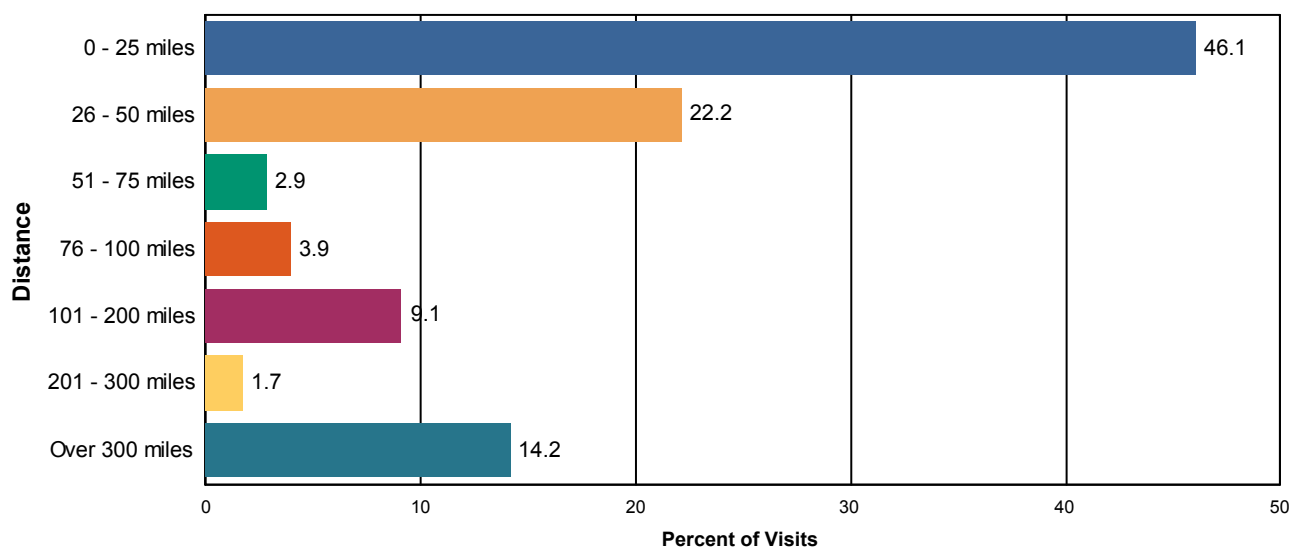


Figure 4. Reported Distance Visitors Would Travel to Alternate Location



## 5. SATISFACTION INFORMATION

An important element of outdoor recreation program delivery is evaluating customer satisfaction with the recreation setting, facilities, and services provided. Satisfaction information helps managers decide where to invest in resources and to allocate resources more efficiently toward improving customer satisfaction. Satisfaction is a core piece of data for national- and forest-level performance measures. To describe customer satisfaction, several different measures are used. Recreation visitors were asked to provide an overall rating of their visit to the national forest, on a 5-point Likert scale. About one-third of visitors interviewed on the forest rated their satisfaction with fourteen elements related to recreation facilities and services, and the importance of those elements to their recreation experience. Visitors were asked to rate the specific site or area at which they were interviewed. Visitors rated both the importance and performance (satisfaction with) of these elements using a 5-point scale. The Likert scale for importance ranged from not important to very important. The Likert scale for performance ranged from very dissatisfied to very satisfied. Although the satisfaction ratings specifically referenced the area where the visitor was interviewed, the survey design does not usually have enough responses for any individual site or area on the forest to present information at a site level. Rather, the information is generalized to overall satisfaction within the three site types: Day Use Developed (DUDS), Overnight Use Developed (OUDS), General Forest Areas, and on the forest as a whole.

The satisfaction responses are analyzed in several ways. First, a graph of overall satisfaction is presented in Figure 5. Next, two aggregate measures were calculated from the set of individual elements. The satisfaction elements most readily controlled by managers were aggregated into four categories: developed facilities, access, services, and visitor safety. The site types sampled were aggregated into three groups: developed sites (includes both day use and overnight developed sites), dispersed areas, and designated Wilderness. The first aggregate measure is called “Percent Satisfied Index (PSI)”, which is the proportion of all ratings for the elements in the category where the satisfaction ratings had a numerical rating of 4 or 5. Conceptually, the PSI indicator shows the percent of all recreation customers who are satisfied with agency performance. The agency’s national target for this measure is 85%. It is usually difficult to consistently have a higher satisfaction score than 85% since given tradeoffs among user groups and other factors. Table 18 displays the aggregate PSI scores for this forest.

Another aggregate measure of satisfaction is called “Percent Meet Expectations (PME)”. This is the proportion of satisfaction ratings in which the numerical satisfaction rating for a particular element is equal to or greater than the importance rating for that element. This indicator tracks the congruence between the agency’s performance and customer evaluations of importance. The idea behind this measure is that those elements with higher importance levels must have higher performance levels. Figure 6 displays the PME scores by type of site. Lower scores indicate a gap between desires and performance.

An Importance-Performance Analysis (IPA) (Hudson, et al, Feb 2004) was calculated for the importance and satisfaction scores. A target level of importance and performance divides the possible set of score pairs into four quadrants. For this work, the target level of both was a numerical score of 4.0. Each quadrant has a title that helps in interpreting responses that fall into it, and that provides some general guidance for management. These can be described as:

1. Importance at or above 4.0, Satisfaction at or above 4.0: **Keep up the good work**. These are items that are important to visitors and ones that the forest is performing quite well;
2. Importance at or above 4.0, Satisfaction under 4.0: **Concentrate here**. These are important items to the public, but performance is not where it needs to be. Increasing effort here is likely to have the greatest payoff in overall customer satisfaction;
3. Importance below 4.0, Satisfaction above 4.0: **Possible overkill**. These are items that are not highly important to visitors, but the forest's performance is quite good. It may be possible to reduce effort here without greatly harming overall satisfaction;
4. Importance below 4.0; Satisfaction below 4.0: **Low Priority**. These are items where performance is not very good, but neither are they important to visitors. Focusing effort here is unlikely to have a great impact.

We present tables that show the I-P rating title for each satisfaction element. Each sitetype is presented in a separate table. Results are presented in Tables 19 - 22.

The numerical scores for visitor satisfaction and importance for each element by site type, and the sample sizes for each are presented in Appendix B (Tables B1 - B4). Most managers find it difficult to discern meaning from these raw tables; however they may wish to examine specific elements once they have reviewed the other satisfaction information presented in this section. Note that if an element had fewer than 10 responses no analyses are performed, as there are too few responses to provide reliable information. Finally, visitors were asked about their overall satisfaction with and the importance of road condition and the adequacy of signage. Figure 7a and Figure 7b show the results.

The overall satisfaction results showed that almost 70 percent of the people who visited were very satisfied with the overall quality of their recreation experience. Another 24 percent were somewhat satisfied. Less than 2 percent expressed any level of dissatisfaction. The composite index results were also quite good. Scores for Developed Sites were higher than the 85% target for access and perception of safety. All satisfaction elements scored higher than 85% for Undeveloped Areas. Developed facilities and perception of safety both resulted in a score above the 85% target for Wilderness. The Percent Meets Expectation scores for feeling of safety were higher than 85 percent for all types of sites. Importance-Performance scores were quite good across all site types. Over 43 percent of the visiting population is satisfied with the road condition forest-wide. Another 52 percent are satisfied with the adequacy of signage forest-wide. Just over 50 percent of the visits feel that road conditions are very important. The same amount feel that adequacy of signage are very important as well.

Figure 5. Percent of National Forest Visits by Overall Satisfaction Rating

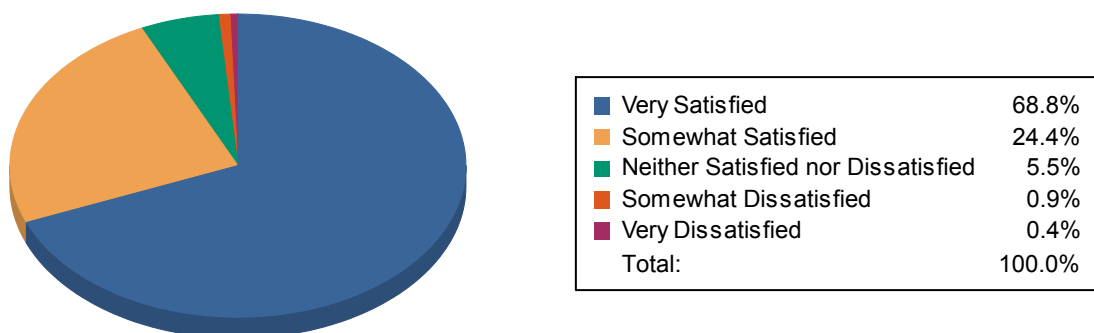


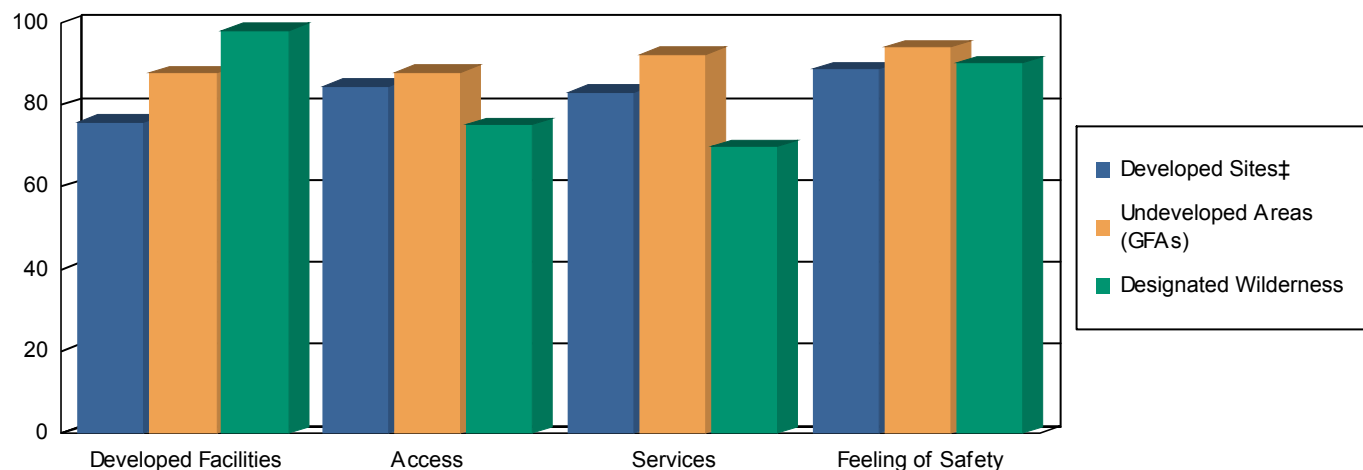
Table 18. Percent Satisfied Index† Scores for Aggregate Categories

Satisfaction Element	Satisfied Survey Respondents (%)		
	Developed Sites‡	Undeveloped Areas (GFAs)	Designated Wilderness
Developed Facilities	81.7	88.3	98.7
Access	88.0	93.3	73.1
Services	78.8	84.5	55.7
Feeling of Safety	93.8	98.0	93.9

† This is a composite rating. It is the proportion of satisfaction ratings scored by visitors as good (4) or very good (5). Computed as the percentage of all ratings for the elements within the sub grouping that are at or above the target level, and indicates the percent of all visitors that are reasonably well satisfied with agency performance.

‡ This category includes both Day Use and Overnight Use Developed Sites.

Figure 6. Percent Meets Expectations Scores\*



\* "Percent Meet Expectations (PME)" is the proportion of satisfaction ratings in which the numerical satisfaction rating for a particular element is equal to or greater than the importance rating for that element. This indicator tracks the congruence between the agency's performance and customer evaluations of importance. The idea behind this measure is that those elements with higher importance levels must have higher performance levels. Lower scores indicate a gap between desires and performance.

‡ This category includes both Day Use and Overnight Use Developed Sites.

Table 19. Importance-Performance Ratings for Day Use Developed Sites

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	Keep up the Good Work
Interpretive Displays	Possible Overkill
Parking Availability	Keep up the Good Work
Parking Lot Condition	Keep up the Good Work
Rec. Info. Availability	Keep up the Good Work
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Keep up the Good Work
Trail Condition	Keep up the Good Work
Value for Fee Paid	Keep up the Good Work



Table 20. Importance-Performance Ratings for Overnight Developed Sites

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	Keep up the Good Work
Interpretive Displays	Low Priority
Parking Availability	Keep up the Good Work
Parking Lot Condition	Keep up the Good Work
Rec. Info. Availability	Possible Overkill
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Possible Overkill
Trail Condition	Keep up the Good Work
Value for Fee Paid	Keep up the Good Work

Table 21. Importance-Performance Ratings for Undeveloped Areas (GFAs)

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	Keep up the Good Work
Interpretive Displays	Possible Overkill
Parking Availability	Keep up the Good Work
Parking Lot Condition	Keep up the Good Work
Rec. Info. Availability	Keep up the Good Work
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Keep up the Good Work
Trail Condition	Keep up the Good Work
Value for Fee Paid	Keep up the Good Work

Table 22. Importance-Performance Ratings for Designated Wilderness

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Possible Overkill
Developed Facilities	*
Condition of Environment	Keep up the Good Work
Employee Helpfulness	*
Interpretive Displays	*
Parking Availability	Possible Overkill
Parking Lot Condition	Possible Overkill
Rec. Info. Availability	Low Priority
Road Condition	Low Priority
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Low Priority
Trail Condition	Keep up the Good Work
Value for Fee Paid	Possible Overkill

\* The data was not reported for items with fewer than 10 responses.

Figure 7a. Satisfaction with Forest-wide Road Conditions &amp; Signage Adequacy

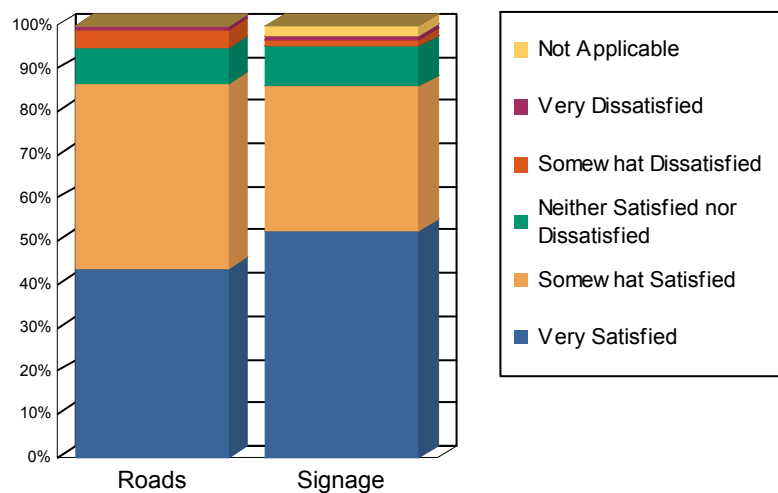
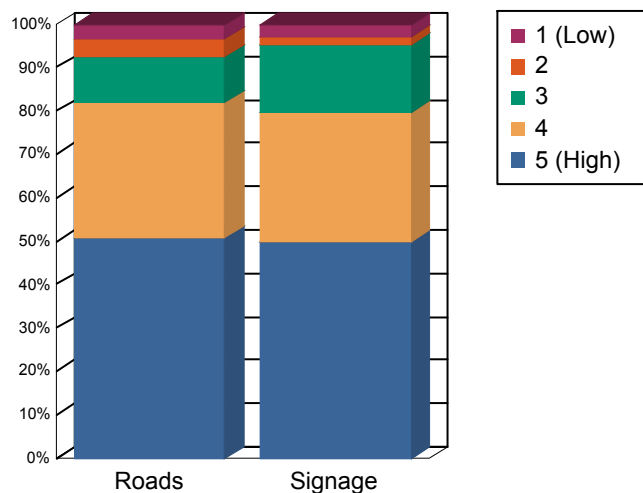


Figure 7b. Importance of Forest-wide Road Conditions &amp; Signage Adequacy



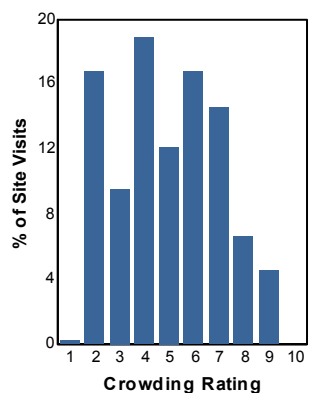
## 5.1. Crowding

Visitors rated their perception of how crowded the recreation site or area felt to them. This information is useful when looking at the type of site the visitor was using since someone visiting a designated Wilderness may think 5 people is too many while someone visiting a developed campground may think 200 people is about right. Table 23 shows the distribution of responses for each site type. Crowding was reported on a scale of 1 to 10 where 1 denotes hardly anyone was there, and a 10 indicates the area was perceived as overcrowded.

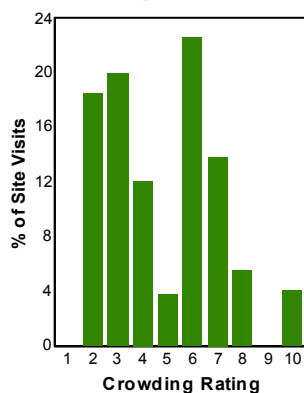
Table 23. Percent of Site Visits\* by Crowding Rating and Site Type

Crowding Rating†	Site Types (% of Site Visits)			
	Day Use Developed Sites	Overnight Use Developed Sites	Undeveloped Areas (GFAs)	Designated Wilderness
10 - Overcrowded	0.0	4.1	0.0	0.0
9	4.6	0.0	0.0	5.8
8	6.6	5.5	5.1	11.6
7	14.5	13.8	6.6	17.4
6	16.8	22.5	18.6	12.8
5	12.1	3.8	11.3	0.0
4	18.8	12.0	12.5	11.6
3	9.5	19.9	28.9	8.2
2	16.7	18.4	16.9	31.4
1 - Hardly anyone there	0.3	0.0	0.0	1.2
<b>Average Rating</b>	<b>4.9</b>	<b>4.8</b>	<b>4.3</b>	<b>4.8</b>

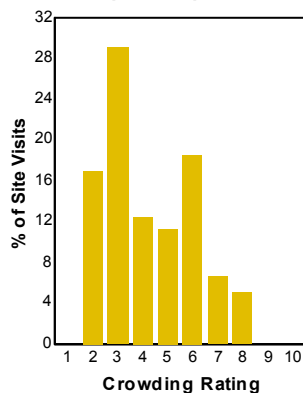
**Day Use Developed Sites**



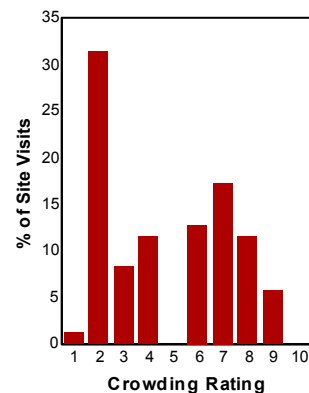
**Overnight Use Developed Sites**



**Undeveloped Areas (GFAs)**



**Designated Wilderness**



\* A Site Visit is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time.

† Survey respondents rated how crowded the site or area they were interviewed at was using a scale of 1 to 10 where 1 meant hardly anyone was there and 10 meant the site or area was overcrowded.

## 5.2. Disabilities

Providing barrier-free facilities for recreation visitors is an important part of facility and service planning and development. One question asked if anyone in their group had a disability. If so, the visitor was then asked if the facilities at the sites they visited were accessible for this person (Table 24).

Table 24. Accessibility of National Forest Facilities by Persons with Disabilities

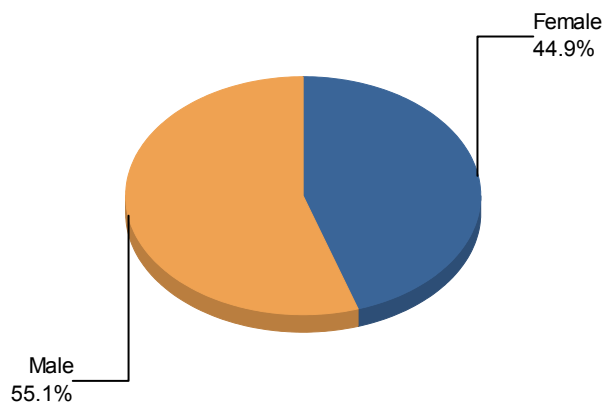
Item	Percent
% of visits that include a group member with a disability	5.9
Of this group, percent who said facilities at site visited were accessible	99.3

## 6. WILDERNESS VISIT DEMOGRAPHICS

Visits to Wilderness are sometimes made by a particular subset of the overall visitor population. In this chapter, tables are presented that describe the demographic characteristics of those who visit designated wilderness on this forest. Table 25 shows the gender breakdown, Table 26 the racial and ethnicity distribution, and the Table 27 age composition. In Table 28, a frequency analysis of Zip Codes obtained from respondents is presented, to give a rough idea of the common origins of Wilderness visitors.

Table 25. Percent of Wilderness Site Visits\* by Gender

Gender	Survey Respondents†	Wilderness Site Visits (%)‡
Female	78	44.9
Male	84	55.1
<b>Total</b>	<b>162</b>	<b>100.0</b>



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

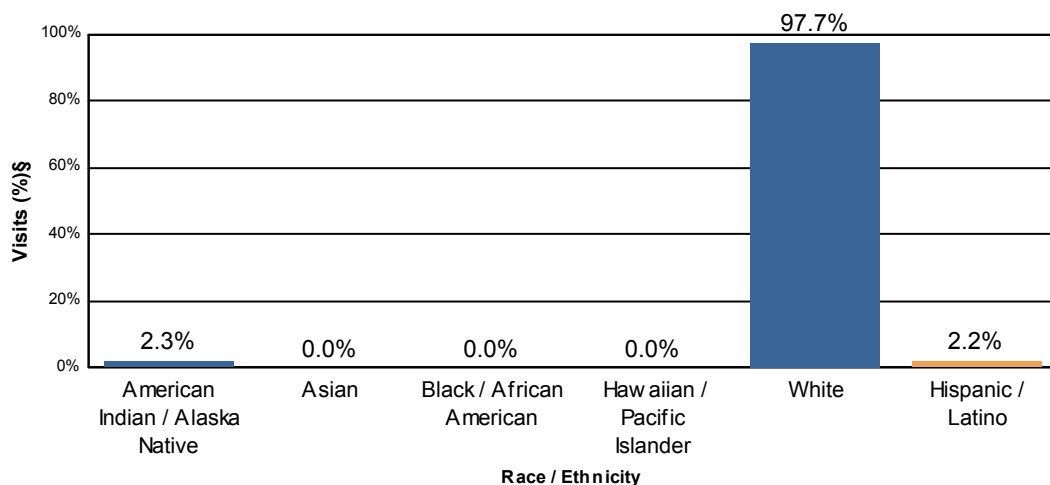
† Non-respondents to gender questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.

Table 26. Percent of Wilderness Site Visits\* by Race/Ethnicity

Race †	Survey Respondents‡	Wilderness Site Visits (%)§
American Indian / Alaska Native	2	2.3
Asian	0	0.0
Black / African American	0	0.0
Hawaiian / Pacific Islander	0	0.0
White	64	97.7
Total	66	100.0#

Ethnicity†	Survey Respondents‡	Wilderness Site Visits (%)§
Hispanic / Latino	2	2.2



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

# Respondents could choose more than one racial group, so the total may be more than 100%.

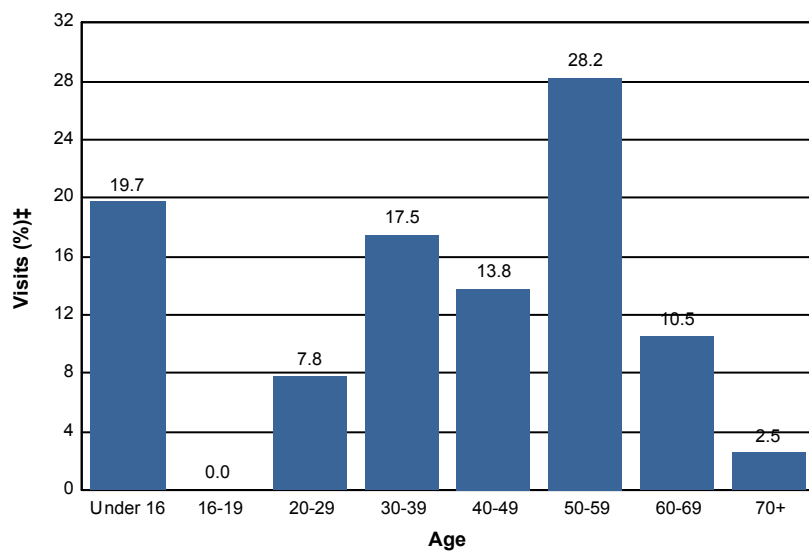
† Race and Ethnicity were asked as two separate questions.

‡ Non-respondents to race/ethnicity questions were excluded from analysis.

§ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.

Table 27. Percent of Wilderness Site Visits\* by Age

Age Class	Wilderness Site Visits (%)‡
Under 16	19.7
16-19	0.0
20-29	7.8
30-39	17.5
40-49	13.8
50-59	28.2
60-69	10.5
70+	2.5
<b>Total</b>	<b>100.0</b>



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

† Non-respondents to age questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.



**Table 28. Top 15 Most Commonly Reported ZIP Codes, States and Counties of Wilderness Survey Respondents**

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
97701	Oregon	Deschutes County	38.1	16
97756	Oregon	Deschutes County	9.5	4
97405	Oregon	Lane County	7.1	3
97219	Oregon	Multnomah County	7.1	3
97759	Oregon	Deschutes County	7.1	3
97401	Oregon	Lane County	4.8	2
30030	Georgia	DeKalb County	4.8	2
97224	Oregon	Washington County	4.8	2
97302	Oregon	Marion County	2.4	1
97381	Oregon	Marion County	2.4	1
97202	Oregon	Multnomah County	2.4	1
19072	Pennsylvania	Montgomery County	2.4	1
97221	Oregon	Multnomah County	2.4	1
97501	Oregon	Jackson County	2.4	1
97206	Oregon	Multnomah County	2.4	1

\* Includes respondents reporting no ZIP code or an invalid ZIP code.

## 7. APPENDIX TABLES

## APPENDIX A - Complete List of ZIP Codes

Table A-1. ZIP Codes, States and Counties of National Forest Survey Respondents

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
97701	Oregon	Deschutes County	17.6	178
97702	Oregon	Deschutes County	12.8	130
97756	Oregon	Deschutes County	3.8	38
97707	Oregon	Deschutes County	2.8	28
97739	Oregon	Deschutes County	2.7	27
Unknown Origin*			2.6	26
97759	Oregon	Deschutes County	2.4	24
Foreign Country			2.0	20
97401	Oregon	Lane County	0.9	9
97405	Oregon	Lane County	0.9	9
97045	Oregon	Clackamas County	0.8	8
97741	Oregon	Jefferson County	0.7	7
97219	Oregon	Multnomah County	0.7	7
97330	Oregon	Benton County	0.7	7
97224	Oregon	Washington County	0.6	6
97734	Oregon	Jefferson County	0.6	6
97404	Oregon	Lane County	0.6	6
97408	Oregon	Lane County	0.6	6
97006	Oregon	Washington County	0.6	6
97754	Oregon	Crook County	0.6	6
97229	Oregon	Washington County	0.5	5
97477	Oregon	Lane County	0.5	5
97302	Oregon	Marion County	0.5	5
97402	Oregon	Lane County	0.5	5
97202	Oregon	Multnomah County	0.5	5
97321	Oregon	Linn County	0.5	5
97211	Oregon	Multnomah County	0.5	5
97223	Oregon	Washington County	0.5	5
97601	Oregon	Klamath County	0.4	4
97068	Oregon	Clackamas County	0.4	4
97365	Oregon	Lincoln County	0.4	4
97212	Oregon	Multnomah County	0.4	4
97030	Oregon	Multnomah County	0.4	4
97123	Oregon	Washington County	0.4	4
97333	Oregon	Benton County	0.4	4
97709	Oregon	Deschutes County	0.4	4
97733	Oregon	Klamath County	0.4	4
97303	Oregon	Marion County	0.4	4
97267	Oregon	Clackamas County	0.3	3
97463	Oregon	Lane County	0.3	3

97140	Oregon	Washington County	0.3	3
97322	Oregon	Linn County	0.3	3
97070	Oregon	Clackamas County	0.3	3
97007	Oregon	Washington County	0.3	3
97214	Oregon	Multnomah County	0.3	3
97737	Oregon	Klamath County	0.3	3
97381	Oregon	Marion County	0.3	3
97386	Oregon	Linn County	0.3	3
97731	Oregon	Klamath County	0.3	3
97424	Oregon	Lane County	0.3	3
97370	Oregon	Benton County	0.3	3
97062	Oregon	Washington County	0.3	3
97128	Oregon	Yamhill County	0.3	3
97114	Oregon	Yamhill County	0.2	2
97478	Oregon	Lane County	0.2	2
98685	Washington	Clark County	0.2	2
97141	Oregon	Tillamook County	0.2	2
97132	Oregon	Yamhill County	0.2	2
97005	Oregon	Washington County	0.2	2
97013	Oregon	Clackamas County	0.2	2
97222	Oregon	Clackamas County	0.2	2
97148	Oregon	Yamhill County	0.2	2
30030	Georgia	DeKalb County	0.2	2
97459	Oregon	Coos County	0.2	2
95405	California	Sonoma County	0.2	2
97305	Oregon	Marion County	0.2	2
97624	Oregon	Klamath County	0.2	2
97216	Oregon	Multnomah County	0.2	2
97520	Oregon	Jackson County	0.2	2
97338	Oregon	Polk County	0.2	2
97527	Oregon	Josephine County	0.2	2
97115	Oregon	Yamhill County	0.2	2
97038	Oregon	Clackamas County	0.2	2
97420	Oregon	Coos County	0.2	2
97225	Oregon	Washington County	0.2	2
98011	Washington	King County	0.2	2
97233	Oregon	Multnomah County	0.2	2
98107	Washington	King County	0.2	2
97217	Oregon	Multnomah County	0.2	2
95521	California	Humboldt County	0.2	2
98671	Washington	Clark County	0.2	2
97221	Oregon	Multnomah County	0.2	2
97306	Oregon	Marion County	0.2	2
97760	Oregon	Jefferson County	0.2	2
97220	Oregon	Multnomah County	0.2	2
97342	Oregon	Marion County	0.2	2
97086	Oregon	Clackamas County	0.2	2
97403	Oregon	Lane County	0.2	2
97367	Oregon	Lincoln County	0.2	2
97034	Oregon	Clackamas County	0.2	2
97035	Oregon	Clackamas County	0.2	2

97213	Oregon	Multnomah County	0.2	2
97708	Oregon	Deschutes County	0.2	2
97138	Oregon	Clatsop County	0.2	2
97304	Oregon	Polk County	0.2	2
97039	Oregon	Sherman County	0.1	1
97051	Oregon	Columbia County	0.1	1
97383	Oregon	Marion County	0.1	1
97228	Oregon	Multnomah County	0.1	1
94551	California	Alameda County	0.1	1
12740	New York	Sullivan County	0.1	1
57106	South Dakota	Minnehaha County	0.1	1
21701	Maryland	Frederick County	0.1	1
97730	Oregon	Jefferson County	0.1	1
97348	Oregon	Linn County	0.1	1
95003	California	Santa Cruz County	0.1	1
96319	Military-Alaska and the F		0.1	1
93406	California	San Luis Obispo County	0.1	1
98008	Washington	King County	0.1	1
98512	Washington	Thurston County	0.1	1
83647	Idaho	Elmore County	0.1	1
95608	California	Sacramento County	0.1	1
35578	Alabama	Walker County	0.1	1
97103	Oregon	Clatsop County	0.1	1
33040	Florida	Monroe County	0.1	1
06611	Connecticut	Fairfield County	0.1	1
99803	Alaska	Juneau Borough	0.1	1
83616	Idaho	Ada County	0.1	1
95536	California	Humboldt County	0.1	1
98390	Washington	Pierce County	0.1	1
98335	Washington	Pierce County	0.1	1
98607	Washington	Clark County	0.1	1
97201	Oregon	Multnomah County	0.1	1
20171	Virginia	Fairfax County	0.1	1
93611	California	Fresno County	0.1	1
98684	Washington	Clark County	0.1	1
07666	New Jersey	Bergen County	0.1	1
96020	California	Plumas County	0.1	1
98367	Washington	Kitsap County	0.1	1
98407	Washington	Pierce County	0.1	1
99354	Washington	Benton County	0.1	1
84020	Utah	Salt Lake County	0.1	1
94598	California	Contra Costa County	0.1	1
26060	West Virginia	Ohio County	0.1	1
97355	Oregon	Linn County	0.1	1
92107	California	San Diego County	0.1	1
92284	California	San Bernardino County	0.1	1
98052	Washington	King County	0.1	1
39047	Mississippi	Rankin County	0.1	1
98124	Washington	King County	0.1	1
83001	Wyoming	Teton County	0.1	1
80918	Colorado	El Paso County	0.1	1

90503	California	Los Angeles County	0.1	1
80517	Colorado	Larimer County	0.1	1
97205	Oregon	Multnomah County	0.1	1
98033	Washington	King County	0.1	1
83709	Idaho	Ada County	0.1	1
95409	California	Sonoma County	0.1	1
97470	Oregon	Douglas County	0.1	1
98053	Washington	King County	0.1	1
60022	Illinois	Cook County	0.1	1
97449	Oregon	Coos County	0.1	1
92021	California	San Diego County	0.1	1
98103	Washington	King County	0.1	1
20003	District of Columbia	District of Columbia	0.1	1
92057	California	San Diego County	0.1	1
33870	Florida	Highlands County	0.1	1
97834	Oregon	Baker County	0.1	1
80421	Colorado	Park County	0.1	1
28804	North Carolina	Buncombe County	0.1	1
97113	Oregon	Washington County	0.1	1
89511	Nevada	Washoe County	0.1	1
90632	California	Orange County	0.1	1
94110	California	San Francisco County	0.1	1
94954	California	Sonoma County	0.1	1
86336	Arizona	Yavapai County	0.1	1
85701	Arizona	Pima County	0.1	1
98221	Washington	Skagit County	0.1	1
97539	Oregon	Jackson County	0.1	1
92673	California	Orange County	0.1	1
95492	California	Sonoma County	0.1	1
98136	Washington	King County	0.1	1
54403	Wisconsin	Marathon County	0.1	1
60558	Illinois	Cook County	0.1	1
19072	Pennsylvania	Montgomery County	0.1	1
97032	Oregon	Marion County	0.1	1
93536	California	Los Angeles County	0.1	1
91773	California	Los Angeles County	0.1	1
44116	Ohio	Cuyahoga County	0.1	1
97710	Oregon	Harney County	0.1	1
97218	Oregon	Multnomah County	0.1	1
98125	Washington	King County	0.1	1
97351	Oregon	Polk County	0.1	1
97137	Oregon	Marion County	0.1	1
53066	Wisconsin	Waukesha County	0.1	1
97501	Oregon	Jackson County	0.1	1
97206	Oregon	Multnomah County	0.1	1
97075	Oregon	Washington County	0.1	1
97327	Oregon	Linn County	0.1	1
95762	California	El Dorado County	0.1	1
93065	California	Ventura County	0.1	1
63701	Missouri	Cape Girardeau County	0.1	1
91355	California	Los Angeles County	0.1	1

98406	Washington	Pierce County	0.1	1
31146	Georgia	DeKalb County	0.1	1
97080	Oregon	Multnomah County	0.1	1
97111	Oregon	Yamhill County	0.1	1
95138	California	Santa Clara County	0.1	1
97721	Oregon	Harney County	0.1	1
89131	Nevada	Clark County	0.1	1
95682	California	El Dorado County	0.1	1
97023	Oregon	Clackamas County	0.1	1
98433	Washington	Pierce County	0.1	1
57702	South Dakota	Pennington County	0.1	1
45241	Ohio	Hamilton County	0.1	1
48381	Michigan	Oakland County	0.1	1
59106	Montana	Yellowstone County	0.1	1
83605	Idaho	Canyon County	0.1	1
93105	California	Santa Barbara County	0.1	1
98019	Washington	King County	0.1	1
30301	Georgia	Fulton County	0.1	1
82902	Wyoming	Sweetwater County	0.1	1
01826	Massachusetts	Middlesex County	0.1	1
97603	Oregon	Klamath County	0.1	1
97301	Oregon	Marion County	0.1	1
97504	Oregon	Jackson County	0.1	1
92592	California	Riverside County	0.1	1
95102	California	Santa Clara County	0.1	1
97443	Oregon	Douglas County	0.1	1
97346	Oregon	Marion County	0.1	1
98665	Washington	Clark County	0.1	1
97071	Oregon	Marion County	0.1	1
98155	Washington	King County	0.1	1
95350	California	Stanislaus County	0.1	1
97231	Oregon	Multnomah County	0.1	1
75080	Texas	Dallas County	0.1	1
98166	Washington	King County	0.1	1
97820	Oregon	Grant County	0.1	1
97918	Oregon	Malheur County	0.1	1
98626	Washington	Cowlitz County	0.1	1
97309	Oregon	Marion County	0.1	1
98236	Washington	Island County	0.1	1
98632	Washington	Cowlitz County	0.1	1
98112	Washington	King County	0.1	1
98901	Washington	Yakima County	0.1	1
99336	Washington	Benton County	0.1	1
97239	Oregon	Multnomah County	0.1	1
61821	Illinois	Champaign County	0.1	1
94555	California	Alameda County	0.1	1
56378	Minnesota	Stearns County	0.1	1
33913	Florida	Lee County	0.1	1
97108	Oregon	Tillamook County	0.1	1
98638	Washington	Pacific County	0.1	1
98664	Washington	Clark County	0.1	1

97753	Oregon	Crook County	0.1	1
98642	Washington	Clark County	0.1	1
98266	Washington	Whatcom County	0.1	1
89128	Nevada	Clark County	0.1	1
99652	Alaska	Matanuska-Susitna Borough	0.1	1
02138	Massachusetts	Middlesex County	0.1	1
91506	California	Los Angeles County	0.1	1
83646	Idaho	Ada County	0.1	1
83501	Idaho	Nez Perce County	0.1	1
43031	Ohio	Licking County	0.1	1
97259	Oregon	Multnomah County	0.1	1
97641	Oregon	Lake County	0.1	1
97026	Oregon	Marion County	0.1	1
06237	Connecticut	Tolland County	0.1	1
76092	Texas	Tarrant County	0.1	1
98020	Washington	Snohomish County	0.1	1
46225	Indiana	Marion County	0.1	1
97101	Oregon	Yamhill County	0.1	1
92586	California	Riverside County	0.1	1
98105	Washington	King County	0.1	1
92121	California	San Diego County	0.1	1
95545	California	Humboldt County	0.1	1
80524	Colorado	Larimer County	0.1	1
12010	New York	Montgomery County	0.1	1
96001	California	Shasta County	0.1	1
85202	Arizona	Maricopa County	0.1	1
97002	Oregon	Marion County	0.1	1
97335	Oregon	Linn County	0.1	1
94526	California	Contra Costa County	0.1	1
97027	Oregon	Clackamas County	0.1	1
95661	California	Placer County	0.1	1
95338	California	Mariposa County	0.1	1
70563	Louisiana	Iberia Parish	0.1	1
55304	Minnesota	Anoka County	0.1	1
49006	Michigan	Kalamazoo County	0.1	1
80534	Colorado	Weld County	0.1	1
98277	Washington	Island County	0.1	1
87123	New Mexico	Bernalillo County	0.1	1
98942	Washington	Yakima County	0.1	1
94521	California	Contra Costa County	0.1	1
98003	Washington	King County	0.1	1
93401	California	San Luis Obispo County	0.1	1
97479	Oregon	Douglas County	0.1	1
33881	Florida	Polk County	0.1	1
99702	Alaska	Fairbanks North Star Borough	0.1	1
94549	California	Contra Costa County	0.1	1
95959	California	Nevada County	0.1	1
85245	Arizona	Pinal County	0.1	1
83704	Idaho	Ada County	0.1	1
94618	California	Alameda County	0.1	1
92101	California	San Diego County	0.1	1



97487	Oregon	Lane County	0.1	1
19610	Pennsylvania	Berks County	0.1	1
81623	Colorado	Garfield County	0.1	1
95688	California	Solano County	0.1	1
91604	California	Los Angeles County	0.1	1
94509	California	Contra Costa County	0.1	1
97210	Oregon	Multnomah County	0.1	1
92807	California	Orange County	0.1	1
97455	Oregon	Lane County	0.1	1
89502	Nevada	Washoe County	0.1	1
98004	Washington	King County	0.1	1
98034	Washington	King County	0.1	1
98144	Washington	King County	0.1	1
95360	California	Stanislaus County	0.1	1
97307	Oregon	Marion County	0.1	1
95650	California	Placer County	0.1	1
83607	Idaho	Canyon County	0.1	1
97378	Oregon	Yamhill County	0.1	1
57201	South Dakota	Codington County	0.1	1
97448	Oregon	Lane County	0.1	1
98312	Washington	Kitsap County	0.1	1
98355	Washington	Lewis County	0.1	1
94118	California	San Francisco County	0.1	1
44140	Ohio	Cuyahoga County	0.1	1
98801	Washington	Chelan County	0.1	1
97375	Oregon	Marion County	0.1	1
07030	New Jersey	Hudson County	0.1	1
95945	California	Nevada County	0.1	1
98030	Washington	King County	0.1	1
94609	California	Alameda County	0.1	1
98223	Washington	Snohomish County	0.1	1
45701	Ohio	Athens County	0.1	1
89704	Nevada	Washoe County	0.1	1
92028	California	San Diego County	0.1	1
93292	California	Tulare County	0.1	1
95123	California	Santa Clara County	0.1	1
98374	Washington	Pierce County	0.1	1
98118	Washington	King County	0.1	1
54639	Wisconsin	Vernon County	0.1	1
92014	California	San Diego County	0.1	1
97089	Oregon	Clackamas County	0.1	1
06831	Connecticut	Fairfield County	0.1	1
97526	Oregon	Josephine County	0.1	1
97124	Oregon	Washington County	0.1	1
98370	Washington	Kitsap County	0.1	1
97602	Oregon	Klamath County	0.1	1
98110	Washington	Kitsap County	0.1	1
92234	California	Riverside County	0.1	1
98373	Washington	Pierce County	0.1	1

\* Includes respondents reporting no ZIP code or an invalid ZIP code.

## APPENDIX B - Detailed Satisfaction Results

Table B-1. Satisfaction for Visits to Day Use Developed Sites

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	4.4	6.1	12.7	30.1	46.8	4.1	4.5	105
Developed Facilities	0.0	3.7	10.5	24.1	61.7	4.4	4.3	141
Condition of Environment	1.1	0.0	5.7	21.6	71.7	4.6	4.7	155
Employee Helpfulness	0.0	2.0	10.0	21.9	66.1	4.5	4.5	88
Interpretive Displays	2.9	6.0	23.4	24.1	43.7	4.0	3.7	125
Parking Availability	0.0	2.5	4.4	16.2	77.0	4.7	4.3	152
Parking Lot Condition	0.0	1.0	10.2	22.1	66.7	4.5	4.1	152
Rec. Info. Availability	1.3	1.7	16.6	25.2	55.2	4.3	4.0	135
Road Condition	0.7	1.7	12.1	28.5	57.1	4.4	4.3	143
Feeling of Safety	0.0	0.3	6.2	11.6	81.9	4.8	4.6	149
Scenery	0.0	0.0	0.5	16.2	83.3	4.8	4.6	156
Signage Adequacy	0.3	5.9	13.8	23.3	56.8	4.3	4.2	156
Trail Condition	0.0	2.8	10.7	29.8	56.6	4.4	4.6	112
Value for Fee Paid	1.5	7.1	15.3	18.1	57.9	4.2	4.5	113

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-2. Satisfaction for Visits to Overnight Developed Sites

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	0.0	4.3	18.4	23.4	53.9	4.3	4.8	43
Developed Facilities	4.3	0.0	12.3	21.1	62.4	4.4	4.3	45
Condition of Environment	1.9	1.8	3.7	34.4	58.2	4.5	4.8	50
Employee Helpfulness	0.0	3.2	0.0	20.4	76.4	4.7	4.6	27
Interpretive Displays	8.3	0.0	29.2	41.1	21.4	3.7	3.7	28
Parking Availability	2.0	0.0	6.2	15.9	75.9	4.6	4.1	48
Parking Lot Condition	6.9	2.3	13.5	29.3	48.0	4.1	4.1	42
Rec. Info. Availability	4.8	2.4	14.0	41.3	37.5	4.0	3.8	42
Road Condition	0.0	9.0	6.9	49.1	35.0	4.1	4.3	41
Feeling of Safety	0.0	2.1	2.2	13.2	82.5	4.8	4.9	47
Scenery	1.9	0.0	0.0	19.1	79.0	4.7	4.8	50
Signage Adequacy	0.0	7.4	11.7	19.4	61.5	4.4	3.9	50
Trail Condition	0.0	4.8	13.5	23.4	58.3	4.4	4.5	38
Value for Fee Paid	7.0	0.0	2.2	14.6	76.1	4.5	4.8	39

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-3. Satisfaction for Visits to Undeveloped Areas (GFAs)

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	3.1	0.0	13.7	27.5	55.7	4.3	4.3	29
Developed Facilities	0.0	0.0	7.5	27.4	65.1	4.6	4.3	36
Condition of Environment	3.0	6.2	4.4	19.7	66.6	4.4	4.7	62
Employee Helpfulness	7.3	0.0	7.3	16.3	69.1	4.4	4.1	13
Interpretive Displays	0.0	0.0	14.9	37.9	47.2	4.3	3.9	27
Parking Availability	1.8	0.0	4.0	44.0	50.3	4.4	4.2	51
Parking Lot Condition	1.9	0.0	8.4	39.5	50.2	4.4	4.0	48
Rec. Info. Availability	0.0	10.0	14.1	27.6	48.3	4.1	4.0	49
Road Condition	0.0	3.3	1.6	50.4	44.7	4.4	4.2	56
Feeling of Safety	0.0	0.0	2.0	7.3	90.7	4.9	4.7	56
Scenery	0.0	0.0	6.2	17.6	76.2	4.7	4.6	62
Signage Adequacy	1.6	0.0	7.0	26.1	65.4	4.5	4.1	58
Trail Condition	0.0	4.1	2.0	23.1	70.7	4.6	4.6	45
Value for Fee Paid	0.0	8.5	2.8	25.2	63.5	4.4	4.3	32

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-4. Satisfaction for Visits to Designated Wilderness\*

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	0.0	0.0	0.0	20.8	79.2	4.8	3.9	12
Developed Facilities	0.0	0.0	3.1	43.9	53.1	4.5		10
Condition of Environment	0.0	7.9	9.3	34.1	48.6	4.2	4.4	20
Employee Helpfulness								4
Interpretive Displays								8
Parking Availability	0.0	19.7	6.1	0.0	74.1	4.3	3.8	21
Parking Lot Condition	6.6	6.6	0.0	27.6	59.3	4.3	3.5	20
Rec. Info. Availability	9.9	9.9	41.9	24.1	14.1	3.2	3.4	14
Road Condition	7.0	21.0	8.5	39.5	24.0	3.5	3.9	19
Feeling of Safety	0.0	0.0	6.1	27.2	66.7	4.6	4.6	21
Scenery	0.0	0.0	1.4	9.3	89.3	4.9	4.4	20
Signage Adequacy	7.0	2.9	24.0	36.5	29.5	3.8	3.7	19
Trail Condition	0.0	6.6	26.2	21.0	46.2	4.1	4.0	20
Value for Fee Paid	0.0	11.9	0.0	35.6	52.5	4.3	3.6	10

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

\* Data supplied is for all Designated Wilderness on the forest combined. Data was not collected for satisfaction for each individual Wilderness on the forest.